

EFED

Rec. 12/5/09

I021455



Re: Request for information on recent pesticide-related mortality incidents

Kimberli J Miller to: Nicholas Mastrotta

12/05/2009 08:14 PM

History: This message has been replied to.

Hi Nick,

As requested, here's information from our Epizootic Database on toxicology related mortality events from 1 June 2008 to 5 December 2009. I added information from the case files that I thought might be of interest to you.

Let me know if you have any questions or need additional information.

Best regards,

Kim

(See attached file: N. Mastrotta EPA 2 Tox summary 1 June 08 to 5 Dec 09.rtf)

Kimberli J. G. Miller, DVM  
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kjmillier@usgs.gov N. Mastrotta EPA 2 Tox summary 1 June 08 to 5 Dec 09.rtf

ISB rec'd  
12/11/09

# USGS National Wildlife Health Center

## Epizootiology Database Search Results

### Toxicosis Suspect and Confirmed Mortality Events 1 June 2008 to 05 December 2009

12/05/2009

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Track #	Stc	Location	Dates	Species	Mortality	Diagnosis	Lab
<u>Atlantic Flyway</u>							
001-*	2008-194	GA Between Hartwell and Royston	09/28/2008 - 10/04/2008	Cowbird, Brown-headed	20 e	Toxicosis: Famphur	SCW
		Dupl. I020210-001, I020495-001		("Approximately twenty birds found dead on private land, during the week of 9/28.")			
002-*	2009-012	FL 2100 Block NW 25th Ave, Miami	01/20/2009 - 01/22/2009	Cowbird, Unidentified Grackle, Unidentified	33	Toxicosis: Avitrol (Intentional poisoning suspected)	FL, NW, ST
003-*	2009-052	FL LEGAL	00/00/2009 - 00/00/2009	Vulture, Black Opossum, Virginia	34	Toxicosis: Methomyl 82% ChE inhibition with complete reversal on incubation 31 Sick and dead vultures; no bait or human presence observed	NFL, NW
	2009-101	VA Private Residence Winchester	06/15/2009 - 06/18/2009	Starling, European	15	Toxicosis suspect (No ChE inhibition. No known avicide use)	NW
	2009-123	ME Kennebec Point	07/07/2009 - ongoing (awaiting cessation date)	Duck, Eider, Common Gull, Herring Cormorant, Double-crested	21	Emaciation Algal Toxicosis suspect	NW
004-*	2009-168	VA Poquoson, Black River	10/15/2009 - ongoing (awaiting cessation date)	Duck, Mallard	8 e	Toxicosis: Diazinon (confirmed on GC/MS) (93, 92, 91% inhibition without reversal on incubation in 3 carcasses submitted for necropsy)	NW
<u>Central Flyway</u>							
	2008-102	ND White Lake	06/20/2008 - 07/14/2008	Duck, Mallard Duck, Gadwall Grebe, Eared Duck, Ruddy Gull, Franklin's Duck, Teal, Unidentified Duck, Shoveler Northern Duck, Wigeon, American Coot, American	110 e	Toxicosis: salt	NW
	2009-108	CO Legal	00/00/2009 - 00/00/2009	Dove, Mourning Pigeon, Unidentified Mouse, NOS	50 e	Open: toxicosis suspect Open: trauma suspect	NW
				(Sick and dead birds observed in millet field day after heavy rains and hail, Round up and 2, 4D used 6 wks earlier)			

# USGS National Wildlife Health Center Epizootiology Database Search Results

## Toxicosis Suspect and Confirmed Mortality Events 1 June 2008 to 05 December 2009

12/05/2009

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Track #	Stc	Location	Dates	Species	Mortality	Diagnosis	Lab
005-* Dupl. I020995-002	2008-207	KS Private Residence, Bushton	12/16/2008 - 12/23/2008	Goose, White-fronted Greater Goose, Canada (Giant, Interior, Lesser) Goose, Unidentified, Domestic Or Hybrid Duck, Mallard	190	Toxicosis: strychnine Toxicosis: salt (Source Unknown)	NW
006-* Dupl. I020607-001 I021229-002 and -003	2009-009	KS Russell Springs	01/04/2009 - 01/06/2009	Turkey (Wild) Badger Raccoon	50 e	Toxicosis: zinc phosphide Toxicosis: Chlorophacinone	SCW, UCD
007-*	2009-028	CO LEGAL	00/00/2009 - 00/00/2009	Duck, Mallard	100 e	Toxicosis: zinc phosphide	NW
	2009-045	KS LEGAL	00/00/2009 - 00/00/2009	Duck, Mallard	15 e	Toxicosis: Lead poisoning (Cadmium, Zinc & Iron also detected)	NW
008-*	2009-126	ND Private Residence, Lignite	08/04/2009 - 08/05/2009	Dove, Mourning Sparrow, Unidentified	7	Toxicosis: Famphur (No known chemical use in the area)	NW
	2009-147	MT Rural residence outside Laurel, MT	04/17/2009 - 04/17/2009	Waxwing, Bohemian	12	Toxicosis suspect (Possibly fermented berries) MT, NW Trauma	
009-*	2009-153	ND Residential Area, Lignite	09/10/2009 - 09/10/2009	Grackle, Common	39	Toxicosis: Famphur (ATV sprayer containing unidentified chemical was observed on site)	NW

### Mississippi Flyway

	2008-176	OH Private residence, Canal Fulton, Stark Co	10/24/2008 - 10/30/2008	Starling, European	200 e	Emaciation Toxicosis suspect (ChE normal)	NW
009	2009-025	MO 2 mi SW of Osage City, Cole County	02/04/2009 - 02/07/2009	Starling, European	50 e	Gout: visceral Toxicosis suspect (ChE normal, <u>Avitrol suspected</u> )	NW
	2009-102	OH Cuyahoga River near King's Run Tributary and	06/25/2009- 06/26/2009	Gull, Ring-billed	550 e	Toxicosis: Oil, unidentified	NON

Note: this is not an incident because the starling is a target species of Avitrol.

# USGS National Wildlife Health Center Epizootiology Database Search Results

## Toxicosis Suspect and Confirmed Mortality Events 1 June 2008 to 05 December 2009

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Track #	St	Location	Dates	Species	Mortality	Diagnosis	Lab
<u>Pacific Flyway</u>							
010-*	2009-013	OR Hillsboro, Washington County	01/23/2009 - 01/24/2009	Goose, Taverner's Canada Goose, Western Canada Goose, Cackling	11	Toxicosis: zinc phosphide (Urban park w/ ponds, landscaped areas, walking paths & buildings) <i>See attached update</i>	NW
	2009-038	NV Reno, Washoe County	11/15/2008 - 01/05/2009	Frog, Northern Leopard	6	Fungal Infection: chytrid Toxicosis (unidentified chemical intoxication suspected)	NW
011-*	2009-047	OR Savic Island, Multnomah County	03/10/2009 - 03/11/2009	Goose, Cackling	8	Toxicosis: zinc phosphide (Farm pond)	NW
012-*	2009-090	AK LEGAL Aleutian Islands <i>Dupl. I020900-001</i>	00/00/2008 - 00/00/2009	Gull, Glaucous-winged Eagle, Bald Falcon, Peregrine Sandpiper, NOS	227	Toxicosis: Brodifacoum	NW
	2009-120	MT Three Forks, Gallatin County	07/23/2009 - 08/03/2009	Dove, Rock	39	Toxicosis: salt Toxicosis: boron	NW
013-*	2009-143	ID Private Residence, Valley County	07/11/2009 - 07/14/2009	Bat, Little Brown	30	Toxicosis: carbofuran Toxicosis: Methiocarb Pneumonia	ID, NW
	2009-151	WA Olympic National Park	09/09/2009 - ongoing	Murre, Common Duck, Scoter, White-winged Duck, Scoter, Surf	100 c	Open: emaciation Algal Toxicosis suspect	CO, NW&, OT
	2009-172	WA Washington Coast	10/19/2009 - ongoing	Grebe, Western Fulmar, Northern Loon, Common Loon, Red-throated Murre, Common Duck, Scoter, Surf Cormorant, Double-crested		Algal Toxicosis suspect	NW

**Report Comments:** All toxicosis suspect and confirmed 10-19-04, open: toxicosis suspect and all rodenticides confirmed from 1 June 2008 to 05 Dec 2009 for EPA search for N. Mastrota

Laboratories: CO= Colorado State University, FL= Florida Game and Fish, ID= Idaho Wildlife Health Laboratory, MT= Montana Fish Wildlife & Parks Diagnostic Laboratory, NFL= USFWS Forensic Laboratory, NON= No diagnostics pursued, NW= USGS National Wildlife Health Center, SCW= Southeastern Cooperative Wildlife Disease Study, ST= State Lab, UCD= Univ of CA-Davis

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Re: Request for information on recent pesticide-related mortality incidents

Kimberli J Miller to: Nicholas Mastrotta

12/10/2009 09:54 PM

History: This message has been replied to.

Hi Nick,

Epizoo 2009-013 There was mention in the file that several hundred to thousands of wintering geese could use the urban park ponds as a nighttime roost. Other waterfowl use the site as well.

Epizoo 2009-047 occurred at a farm pond. I will have to check with the Disease Specialist who handled the 2 cases to see if there's any additional information on a source of zinc phosphide exposure.

Epizoo 2009-143. The necropsy and diagnostic evaluation/testing were performed at a different lab, not NWHC. We only received information on the dieoff and histopathology slides to examine for "White Nose Syndrome", a bat fungal disease. From the information provided to us, 30 bats were found dead in a yard where several bat boxes were attached to a house. 5 bats were submitted for exam; 3 adults and 2 juveniles. Only the adults were necropsied because the juveniles were so small. Lungs from one bat were examined and interstitial pneumonia was observed microscopically (tox testing was not done on this bat). Due to the small sample size, liver samples from the 2 other bats were pooled for tox testing. Carbofuran and Methiocarb were detected in the pooled sample, each at 0.5 micrograms/g. The pathologist who examined the bats felt the pneumonia could be related to the carbamate poisoning based on a report in human medical literature.

I hope this is helpful. I'll let you know if there's any additional information on the zinc phosphide cases.

Kim

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From: Mastrotta.Nicholas@epamail.epa.gov

To: Kimberli J Miller <[kjmilller@usgs.gov](mailto:kjmilller@usgs.gov)>

Date: 12/10/2009 12:26 PM

Subject: Re: Request for information on recent pesticide-related mortality incidents

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Hi Kim,

Thanks for sending this. Your added notes are very helpful. I just have a few of questions on a couple of the incidents.

1. You have notes on the two zinc phosphide incidents, 2009-013 and 2009-047 that seem to describe the area where the dead birds were found. Is that correct? These do not seem like places where zinc phosphide would be used. I assume that the geese probably got exposed in some nearby agricultural fields where zinc phosphide bait was used for rodent control. Do you have any information on the source of the zinc phosphide exposure in either of these cases?

2. Incident 2009-143 involves the death of 30 little brown bats. Three diagnoses are given: carbofuran, methiocarb, and pneumonia. Why are all three listed? Is it thought that all three contributed to killing all of the bats, or were there some bats diagnosed with each one of these causes? I would like to know how many were diagnosed to each cause, and also the residue analysis results for carbofuran and methiocarb, if possible.

Thanks for your help.

Nick

From: Kimberli J Miller <kjmilller@usgs.gov>

To: Nicholas Mastrotta/DC/USEPA/US@EPA

Date: 12/05/2009 08:14 PM

Subject: Re: Request for information on recent pesticide-related mortality incidents

Hi Nick,

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Best regards,

Kim

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(See attached file: N. Mastrota EPA 2 Tox summary 1 June 08 to 5 Dec 09.rtf)

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[kjmilller@usgs.gov](mailto:kjmilller@usgs.gov)[attachment "N. Mastrota EPA 2 Tox summary 1 June 08 to 5 Dec 09.rtf" deleted by Nicholas Mastrota/DC/USEPA/US]